

UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner:                      Group:                      Attorney Docket # 1936

Applicant(s) : EGGERS, W., ET AL

Serial No. :

Filed :

For : STATOR

SIMULTANEOUS AMENDMENT

January 18, 2002

Honorable Commissioner of Patents and Trademarks  
Washington, D.C. 20231

S I R S:

Simultaneously with filing of the above identified application  
please amend the same as follows:

In the Claims:

Cancel all claims without prejudice.

Substitute the claims attached hereto.

REMARKS:

This Amendment is submitted simultaneously with filing of the above identified  
application.

With the present Amendment applicant has amended the claims so as to eliminate  
their multiple dependency.

Consideration and allowance of the present application is most respectfully  
requested.

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Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

What is claimed is:

1. A stator (20) comprising at least one stack of individual laminations (16) that comprises at least one lamination (1), and an at least partially present plastic coating (22),

wherein the stator (20) comprises at least one core ring (70) that forms a watertight inner channel (27) and extends along a centerline (3), at least one stack of individual laminations (16) is located on the core ring (70), and the at least one stack of individual laminations (16) is held together by means of the plastic coating (22).

2. A stator according to claim 1,

wherein the core ring (70) has at least one hook-shaped projection (77) for each stack of individual laminations (16) that extends in the direction of the centerline (3) of the stator (20) on an outer surface of the core ring (70), and the hook-shaped projection (77) at least partially encompasses the stack of individual laminations (16) and forms a positive connection.

3. A stator according to claim 1 [or 2],

wherein the core ring (70) has at least one protuberance (74) that extends in the direction of the centerline (3) on an outer surface of the core ring (70), and the protuberance (74) catches in a groove (58) of the stack of individual laminations (16).

4. A stator according to claim 1,

wherein the plastic coating (22) of the stator (20) is produced by means of injection molding.

5. A stator according to claim 1 [or 2],  
wherein at least one stack of individual laminations (16) has at least one projection (5) extending radially outward, on which an electrical winding (45) is located.
6. A stator according to claim 5,  
wherein a coil form (34) is integrally molded onto at least one projection (5) of the lamination (1).
7. A stator according to claim 6,  
wherein the electrical winding (45) is located on the coil form (34), the electrical winding (45) is composed of at least one coil wire, and at least one receptacle (38) is located on the plastic coating (22) that serves as an insulation displacement connection having a coil wire (48).
8. A stator according to claim 7,  
wherein the at least one receptacle (38) is located on the coil form (34).
9. A stator according to [one or more of the claims 6 through 8] claim 6,  
wherein a winding is wound in at least one plane on the coil form (34), there is a lowermost winding plane (51) of a coil form (34) that is closest to the centerline (3), and the lowermost winding plane (51) touches the plastic coating (22) only at the respective coil form (34).
10. A stator according to [one or more of the claims 6 through 9] claim 6,  
wherein the coil form (34) has at least one winding support point (54) for a winding procedure of the coil form (34) having a winding (45).
11. A stator according to [one or both of the claims 5 or 6] claim 5,



What is claimed is:

1. A stator (20) comprising at least one stack of individual laminations (16) that comprises at least one lamination (1), and an at least partially present plastic coating (22),

wherein the stator (20) comprises at least one core ring (70) that forms a watertight inner channel (27) and extends along a centerline (3), at least one stack of individual laminations (16) is located on the core ring (70), and the at least one stack of individual laminations (16) is held together by means of the plastic coating (22).

2. A stator according to claim 1, wherein the core ring (70) has at least one hook-shaped projection (77) for each stack of individual laminations (16) that extends in the direction of the centerline (3) of the stator (20) on an outer surface of the core ring (70), and the hook-shaped projection (77) at least partially encompasses the stack of individual laminations (16) and forms a positive connection.

3. A stator according to claim 1, wherein the core ring (70) has at least one protuberance (74) that extends in the direction of the centerline (3) on an outer surface of the core ring (70), and the protuberance (74) catches in a groove (58) of the stack of individual laminations (16).

4. A stator according to claim 1, wherein the plastic coating (22) of the stator (20) is produced by means of injection molding.

5. A stator according to claim 1,  
wherein at least one stack of individual laminations (16) has at least one  
projection (5) extending radially outward, on which an electrical winding (45) is  
located.

6. A stator according to claim 5,  
wherein a coil form (34) is integrally molded onto at least one projection (5) of the  
lamination (1).

7. A stator according to claim 6,  
wherein the electrical winding (45) is located on the coil form (34), the electrical  
winding (45) is composed of at least one coil wire, and at least one receptacle  
(38) is located on the plastic coating (22) that serves as an insulation  
displacement connection having a coil wire (48).

8. A stator according to claim 7,  
wherein the at least one receptacle (38) is located on the coil form (34).

9. A stator according to claim 6,  
wherein a winding is wound in at least one plane on the coil form (34), there is a  
lowermost winding plane (51) of a coil form (34) that is closest to the centerline  
(3), and the lowermost winding plane (51) touches the plastic coating (22) only at  
the respective coil form (34).

10. A stator according to claim 6,  
wherein the coil form (34) has at least one winding support point (54) for a  
winding procedure of the coil form (34) having a winding (45).

11. A stator according to claim 5,

wherein an external member (30) is slid onto the projections (5) of the stack of individual laminations (18).

12. A stator according to claim 11,  
wherein the external member (30) is formed out of individual sheet metal layers.

13. A stator according to claim 11,  
wherein the external member (30) forms a bayonet coupling (64) with the at least one stack of individual laminations (18).

14. A stator according to claim 1,  
wherein the stack of individual laminations (18) forms a laminated stack.

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